

Claims

Having thus described the invention, what is claimed and desired to be secured by Letters Patent is:

6. An infusion pump for the delivery of an amount of a medicament to the body of a patient determinable by means of an electronic control device, the infusion pump comprising:

a) a computer for calculating the maximum permitted quantity to be administered each time as a function of any previously delivered quantity and the expected breaking down rate of the medicament,

b) a blocking device for preventing further administration of the medicament on exceeding a predetermined, permitted maximum value,

c) the computer having a memory in which is stored a quantitative figure resulting from a summation of a total delivered medicament amount and a subtracting of a percentage of a quantity entered in the memory resulting from an expected breaking down of the medicament in the body, and

d) the computer having a comparator which constantly compares the quantity entered in the memory with a predetermined, permitted maximum value.

7. The infusion pump according to claim 6, further comprising a device which, with a predetermined time interval corresponding to the expected breaking down of the medicament

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in the body, can subtract a fixed percentage of the quantity entered in the memory.

8. An infusion pump according to claim 6, further comprising a device which with fixed, predetermined time intervals brings about a subtraction of a percentage of the quantity entered in the memory corresponding to the expected breaking down of the medicament.

9. An infusion pump according to claim 7, wherein the infusion pump is implantable within the body of the patient and can be operated by an external control device.

10. An infusion pump according to claim 9, wherein a first computer operates the infusion pump and a second computer operates the external control device.

11. An infusion pump according to claim 8, wherein the infusion pump is implantable within the body of the patient and can be controlled by an external control device.

12. An infusion pump according to claim 11, wherein a first computer operates the infusion pump and a second computer operates the external control device.

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Claims

Having thus described the invention, what is claimed and desired to be secured by Letters Patent is:

[7] 6. An infusion pump for the delivery of an amount of a medicament to the body of a patient determinable by means of an electronic control device, the infusion pump [being provided with] comprising:

a) a computer for calculating the maximum permitted quantity to be administrated each time as a function of any previously delivered quantity and the expected breaking down rate of the medicament, [the pump further being provided with]

b) a blocking device for preventing further administration of the medicament on exceeding a predetermined, permitted maximum value, [the infusion pump comprising:]

[a)] c) the computer having a memory in which is stored a quantitative figure resulting from a summation of a total delivered medicament amount and a subtracting of a percentage of a quantity entered in the memory resulting from an expected breaking down of the medicament in the body, and

[b)] d) the computer having a comparator which constantly compares the quantity entered in the memory with a predetermined, permitted maximum value.

[8] 7. The infusion pump according to claim [7] 6, further comprising a device which, with a predetermined time interval

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corresponding to the expected breaking down of the medicament in the body, can subtract a fixed percentage of the quantity entered in the memory.

[9] 8. An infusion pump according to claim [7] 6, further comprising a device which with fixed, predetermined time intervals brings about a subtraction of a percentage of the quantity entered in the memory corresponding to the expected breaking down of the medicament.

[10] 9. An infusion pump according to claim [8] 7, wherein the infusion pump is implantable within the body of the patient and can be operated by an external control device.

[11] 10. An infusion pump according to claim [10] 9, wherein a first computer operates the infusion pump and a second computer operates the external control device.

[12] 11. An infusion pump according to claim [9] 8, wherein the infusion pump is implantable within the body of the patient and can be controlled by an external control device.

[13] 12. An infusion pump according to claim [12] 11, wherein a first computer operates the infusion pump and a second computer operates the external control device.

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